

## Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>IOWA, Southwest</b>				

(IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE, (IA-Z079) MILLS, (IA-Z080) MONTGOMERY, (IA-Z090) FREMONT, (IA-Z091) PAGE

02/01/11 00:00 CST	0	Winter Storm
02/02/11 03:00 CST	0	

(IA-Z043) MONONA, (IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE

02/02/11 01:00 CST	0	Cold/Wind Chill
02/02/11 11:00 CST	0	

A large upper level system dropped southeast from the northern Rockies and then split into two pieces, one tracked across the central plains while the other drifted southwest across the southwestern U.S. Surface low pressure associated with the first piece tracked from northeast Texas across southeast Missouri and then into the lower Great Lakes region. Arctic air was pulled in behind this system and brought a massive winter storm to a very large part of the U.S. Freezing rain, heavy snow and blizzard conditions prevailed from the southern plains toward the Great Lakes, while record setting cold temperatures plunged southwest across western Texas, New Mexico and Arizona.

Across eastern Nebraska and southwest Iowa the storm initially spread freezing drizzle or light freezing rain, mixed at times with light snow, across much of the area during the early morning hours of Jan. 31. The precipitation changed over to all snow later on the 31st and continued into the late night hours of Feb. 1st. As Arctic air spilled in behind the system, dangerously cold wind chill values spread over the region early on the 2nd. Increasing north to northwest winds on the 1st caused considerable blowing and drifting snow which closed some county roads and created near-blizzard conditions. The heavier snow from the storm was generally from around Lincoln and David City east and southeast into western Iowa, with most amounts across this area in the 5 to 7 inch range. Heavier snow totals from the storm in eastern Nebraska included; 6.9 inches in Omaha, 6.6 inches at the NWS in Valley, 6.2 inches in Virginia, and around 6 inches in Rulo, Shubert, Auburn, near Cedar Bluffs and Papillion and around 5 inches at David City, Lincoln and Beatrice. In southwest Iowa the heavier totals included; 7.5 inches in Glenwood, and around 5 inches at Harlan, Clarinda and Little Sioux.

(IA-Z043) MONONA, (IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE, (IA-Z079) MILLS, (IA-Z080) MONTGOMERY, (IA-Z090) FREMONT, (IA-Z091) PAGE

02/08/11 00:00 CST	0	Cold/Wind Chill
02/08/11 18:00 CST	0	

Arctic high pressure building south behind a storm system that affected parts of the western through southern plains brought subzero temperatures and dangerously cold wind chill values. As temperatures dropped to 5 below to 10 below zero, north winds of 10 to 20 mph produced wind chill values that fell to 20 below to 30 below zero over much of eastern Nebraska and southwest Iowa during the morning of February 8th.

FREMONT COUNTY --- 1.3 W RIVERTON [40.68, -95.59], 3.3 W RIVERTON [40.68, -95.63], 3.4 WNW RIVERTON [40.70, -95.63], 1.4 NW RIVERTON [40.69, -95.59]

02/17/11 18:00 CST	0	Flood (due to Ice Jam)
02/18/11 15:00 CST	0	Source: Emergency Manager

Ice jam flooding was observed along the East Nishnabotna River which crossed County Road J46 near Riverton. Damage was apparently minimal.

A combination of melting snow and warmer temperatures helped form ice jams in far southwest Iowa around the middle of the month.

(IA-Z079) MILLS

02/24/11 14:00 CST	0	Winter Weather
02/24/11 20:00 CST	0	

An upper level disturbance that tracked across the central plains brought snow to southeast Nebraska and southwest Iowa during the evening commute on Feb. 24th. There was a sharp cutoff between 3 to 5 inches of snow and no snow that extended across the southern sections of the Omaha and Council Bluffs metro area. This helped cause numerous accidents south of the Council Bluffs area as commuters traveled from dry roads to areas of poor visibilities and snow-packed roads.

## NEBRASKA, East

(NE-Z011) KNOX, (NE-Z012) CEDAR

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/01/11 00:00 CST		0	Extreme Cold/Wind Chill
	02/02/11 11:00 CST		0	
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(NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z018) WAYNE, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z050) BUTLER, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z068) OTOE, (NE-Z089) GAGE, (NE-Z090) JOHNSON, (NE-Z091) NEMAHA, (NE-Z092) PAWNEE, (NE-Z093) RICHARDSON				
	02/01/11 00:00 CST		0	Winter Storm
	02/02/11 16:00 CST		0	
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(NE-Z015) THURSTON, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z030) BOONE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z033) CUMING, (NE-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z050) BUTLER, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z068) OTOE, (NE-Z078) SALINE, (NE-Z088) JEFFERSON, (NE-Z089) GAGE, (NE-Z090) JOHNSON, (NE-Z091) NEMAHA, (NE-Z092) PAWNEE, (NE-Z093) RICHARDSON				
	02/01/11 00:00 CST		0	Cold/Wind Chill
	02/02/11 11:00 CST		0	
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<p>A large upper level system dropped southeast from the northern Rockies and then split into two pieces, one tracked across the central plains while the other drifted southwest across the southwestern U.S. Surface low pressure associated with the first piece tracked from northeast Texas across southeast Missouri and then into the lower Great Lakes region. Arctic air was pulled in behind this system and brought a massive winter storm to a very large part of the U.S. Freezing rain, heavy snow and blizzard conditions prevailed from the southern plains toward the Great Lakes, while record setting cold temperatures plunged southwest across western Texas, New Mexico and Arizona.</p>				
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<p>Across eastern Nebraska and southwest Iowa the storm initially spread freezing drizzle or light freezing rain, mixed at times with light snow, across much of the area during the early morning hours of Jan. 31. The precipitation changed over to all snow later on the 31st and continued into the late night hours of Feb. 1st. As Arctic air spilled in behind the system, dangerously cold wind chill values spread over the region on the 1st and early on the 2nd. Increasing north to northwest winds on the 1st caused considerable blowing and drifting snow which closed some county roads and created near-blizzard conditions. The heavier snow from the storm was generally from around Lincoln and David City east and southeast into western Iowa, with most amounts across this area in the 5 to 7 inch range. Heavier snow totals from the storm in eastern Nebraska included; 6.9 inches in Omaha, 6.6 inches at the NWS in Valley, 6.2 inches in Virginia, and around 6 inches in Rulo, Shubert, Auburn, near Cedar Bluffs and Papillion and around 5 inches at David City, Lincoln and Beatrice. In southwest Iowa the heavier totals included; 7.5 inches in Glenwood, and around 5 inches at Harlan, Clarinda and Little Sioux.</p>				
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(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z030) BOONE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z050) BUTLER, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z068) OTOE, (NE-Z078) SALINE				
	02/07/11 22:00 CST		0	Cold/Wind Chill
	02/08/11 18:00 CST		0	
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<p>Arctic high pressure building south behind a storm system that affected parts of the western through southern plains brought subzero temperatures and dangerously cold wind chill values. As temperatures dropped to 5 below to 10 below zero, north winds of 10 to 20 mph produced wind chill values that fell to 20 below to 30 below zero over much of eastern Nebraska and southwest Iowa during the morning of February 8th.</p>				
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SARPY COUNTY --- 1.7 ENE LOUISVILLE STATION [41.04, -96.12], 2.8 SE SPRINGFIELD [41.06, -96.09], 2.0 SE SPRINGFIELD [41.06, -96.10], 2.0 NE LOUISVILLE STATION [41.05, -96.12]				
	02/17/11 08:00 CST		5K	Flood (due to Ice Jam)
	02/18/11 02:00 CST		0	Source: Newspaper
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<p>A relatively short-lived ice jam along the Platte River caused some flooding damage to a few picnic tables, docks and outdoor furniture in the Villa Springs subdivision near 120th and Buffalo road in southern Sarpy county.</p>				
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SARPY COUNTY --- 7.1 SSW GRETNA [41.06, -96.32], 7.4 SSW GRETNA [41.06, -96.32], 7.2 SSW GRETNA [41.06, -96.31], 6.9 SSW GRETNA [41.07, -96.32]				
	02/17/11 08:00 CST		0	Flood (due to Ice Jam)
	02/18/11 02:00 CST		0	Source: Newspaper
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<p>Minor flooding along the Platte River due to an ice jam was noted around the Linoma Beach area in far southwest Sarpy county. No damage was reported in the area.</p>				
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SAUNDERS COUNTY --- 2.9 ENE ASHLAND [41.06, -96.33], 3.6 NE ASHLAND [41.09, -96.34], 3.0 NNE ASHLAND [41.09, -96.35], 1.1 ESE ASHLAND [41.04, -96.36]				

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	02/17/11 08:00 CST		0	Flood (due to Ice Jam)
	02/18/11 02:00 CST		0	Source: Newspaper
Minor flooding occurred along the Platte River due to an ice jam when water briefly topped a Levee in the Willow Point area. Little or no damage was reported in the area.				
<b>DODGE COUNTY --- 2.9 S FREMONT [41.41, -96.51], 2.0 S FREMONT ARPT [41.42, -96.53], 2.2 S FREMONT ARPT [41.42, -96.53], 3.1 S FREMONT [41.41, -96.51]</b>				
	02/17/11 09:00 CST		0	Flood (due to Ice Jam)
	02/18/11 09:00 CST		0	Source: Emergency Manager
An ice jam near the Highway 77 bridge caused flooding that closed Ridge Road for a while, mainly during the afternoon of the 17th, just southwest of Fremont. Damage was apparently minimal.				
<b>SAUNDERS COUNTY --- 5.9 E CEDAR BLUFFS [41.40, -96.51], 4.5 ENE CEDAR BLUFFS [41.41, -96.53], 4.5 ENE CEDAR BLUFFS [41.42, -96.54], 5.8 E CEDAR BLUFFS [41.41, -96.51]</b>				
	02/17/11 09:00 CST		5K	Flood (due to Ice Jam)
	02/18/11 13:00 CST		0	Source: Emergency Manager
An ice jam near the Highway 77 bridge caused flooding that closed Ridge Road for a while, mainly during the afternoon of the 17th, just southwest of Fremont, in Dodge county and also flooded at least 3 homes/cabins on the south side of the river in Saunders county. Damage was apparently minimal.				
<b>CASS COUNTY --- 1.1 NW CEDAR CREEK [41.04, -96.12], 0.8 NW CEDAR CREEK [41.04, -96.11], 1.6 NNE CEDAR CREEK [41.05, -96.09], 1.6 N CEDAR CREEK [41.05, -96.10]</b>				
	02/17/11 10:00 CST		0	Flood (due to Ice Jam)
	02/17/11 16:00 CST		0	Source: Emergency Manager
Minor ice jam flooding was observed along the Platte River in the Cedar Creek area for a relatively brief time. Little apparent damage was noted.				
<b>STANTON COUNTY --- 4.0 W STANTON [41.95, -97.31], 4.3 W STANTON [41.94, -97.31], 7.8 WNW STANTON [41.99, -97.37], 7.5 WNW STANTON [42.00, -97.36]</b>				
	02/18/11 08:00 CST		0	Flood (due to Ice Jam)
	02/18/11 20:00 CST		0	Source: Emergency Manager
Minor flooding along the Elkhorn River due to an ice jam was noted south of Highway 24 between Stanton and Norfolk. The flooding was confined mainly to agricultural lowlands and damage was apparently minimal.				
<b>PIERCE COUNTY --- 1.6 N PIERCE [42.22, -97.53], 2.8 SE PIERCE [42.17, -97.50], 0.9 N HADAR [42.11, -97.45], 2.2 ENE HADAR [42.11, -97.41], 2.0 NNE PIERCE [42.23, -97.51]</b>				
	02/18/11 09:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	02/19/11 06:15 CST		0	Source: Official NWS Observations
Melting snow and a possible ice jam caused minor flooding along the North Fork of the Elkhorn River around and downstream of the Pierce area. The river at Pierce crested a little over its 12 foot flood stage during the late afternoon and evening of Feb. 18th. The flood waters mainly affected agricultural lowlands.				
<b>CUMING COUNTY --- 4.0 SSE BEEMER [41.88, -96.79], 6.0 SE MONTEREY [41.74, -96.74], 6.0 S WEST PT [41.74, -96.71], 0.7 NNE WEST PT [41.84, -96.72], 3.8 NNW WEST PT [41.88, -96.74]</b>				
	02/18/11 10:00 CST		1K	Flood (due to Ice Jam)
	02/25/11 03:00 CST		0	Source: Emergency Manager
Ice jam flooding was observed along the Elkhorn River from around the West Point area downstream to around Crowell. Although the flooding was confined mostly to agricultural lowlands along the river, the flood waters did cross Highway 275 near Crowell prompting its closure for around a week. The main ice jam was 1 mile upstream to 2 miles downstream of the Highway 32 bridge near West Point. The jam caused the Elkhorn River at West Point to reach a crest a little over 14 feet on Feb. 22nd, flood stage is 12 feet.				
<b>DODGE COUNTY --- 1.2 NW CROWELL [41.74, -96.74], 1.1 S CROWELL [41.71, -96.72], 1.2 ESE CROWELL [41.72, -96.70], 1.2 NE CROWELL [41.74, -96.71]</b>				
	02/18/11 10:00 CST		1K	Flood (due to Ice Jam)
	02/25/11 03:00 CST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Ice jam flooding was observed along the Elkhorn River from around the West Point area downstream to around Crowell . Although the flooding was confined mostly to agricultural lowlands along the river, the flood waters did cross Highway 275 near Crowell prompting its closure for around a week. The main ice jam was 1 mile upstream to 2 miles downstream of the Highway 32 bridge near West Point. The jam caused the Elkhorn River at West Point to reach a crest a little over 14 feet on Feb. 22nd, flood stage is 12 feet.				

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**SAUNDERS COUNTY --- 5.7 NW LESHARA [41.40, -96.50], 3.9 NNW LESHARA [41.38, -96.47], 4.1 NNW LESHARA [41.39, -96.46], 5.7 NNW LESHARA [41.40, -96.49]**

02/20/11 10:00 CST	2K	Flood (due to Ice Jam)
02/21/11 10:00 CST	0	Source: Emergency Manager

A mile long ice jam near the Woodcliff Lake subdivision south of Fremont caused flooding to at least 3 homes in the area and prompted dirt barriers to be erected along the edges of the lake. However, any flood damage to the homes was apparently minimal, and the flooding only lasted for about 24 hours before enough of it broke free causing the water levels to fall.

**A combination of melting snow and warmer temperatures helped form ice jams along sections of eastern Nebraska rivers and streams over the last few weeks of February. Most the flooding was noted along the Platte River from around Fremont downstream toward the confluence with the Elkhorn River and along the Elkhorn River from around Stanton toward Scribner.**

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**(NE-Z011) KNOX**

02/20/11 01:00 CST	0	Ice Storm
02/20/11 08:30 CST	0	

Low pressure moved from northeast Colorado to southeast Nebraska during the morning of Feb. 20th as an upper level disturbance lifted northeast across Nebraska into South Dakota. The low separated temperatures in the teens and 20s in northwest Nebraska from readings that hit the lower 70s in far southeast Nebraska early in the afternoon on the 20th. Unstable air that spread northeast during the predawn hours spread thunderstorms across eastern Nebraska and a few of the storms produced small hail. In far northeast Nebraska, which was northwest of a surface trough that separated readings in the 20s from the upper 30s, freezing rain mixed with sleet spread across the area after midnight on the 20th. Some quarter inch or more ice accumulations were observed, mainly in Knox county, before the precipitation lifted out of the region a little after daybreak.

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**(NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z067) CASS**

02/24/11 13:00 CST	0	Winter Weather
02/24/11 19:30 CST	0	

An upper level disturbance that tracked across the central plains brought an area of 3 to 5 inches of snow to southeast Nebraska and southwest Iowa. The snow briefly lowered visibilities to 1/4 mile or less in some areas. Since it fell during the evening commute, it caused numerous accidents in the Lincoln area and parts of the Omaha metro. The snow area abruptly cutoff across the Omaha metro area with much of Douglas county receiving only flurries while 3 to 4 inches of snow fell across the southern sections of the metro. This abrupt change from dry roads to snow-packed ones caused accidents and traffic tie-ups as commuters traveled from the dry roads to the slick ones, especially on Highway 75 in the Bellevue area and along Interstate 80 near the Lancaster and Seward county line. Fifty-two cars were involved in a pile up on I80 west of Lincoln.